Shrishti Singh, Ph.D.

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PROFESSIONAL WORK EXPERIENCE

University of Michigan Innovation Partnerships
Licensing Associate -Life Sciences ***October 2024 – Present***

- Conduct prior literature search and analyze scientific literature, market reports and intellectual property databases for a technology in life sciences (therapeutics and medical devices).
- Work with U-M faculty and manage a portfolio of technologies and delegate sponsored research agreements.
- Collaborate with cross-functional teams and evaluate the feasibility and scalability of new technologies.
- Support the development of IP strategies by identifying potential licenses and strategies for venture formation.

George Mason University– Fairfax, VA
Postdoctoral Researcher ***March 2023 – June 2024***

- Delivered 5+ outreach presentations to familiarize faculty and students with technology transfer activities and the value of securing non-dilutive funding for technology commercialization.
- Led a team of **5** to design and develop proprietary oncology formulations optimizing surface chemistry and *in-vitro* assays.
- Authored **1 comprehensive** whitepaper in partnership with PhotoSound Inc., detailing the product's **pre-clinical** properties.
- Analyzed data and presented findings in **10+ talks** and **7 publications**, demonstrating strong oral and written communication skills.

NIRView Biosciences Inc – Fairfax, VA ***March 2023 – June 2024***
Co-Founder

- Spearheaded the development and commercialization of a proprietary biotech product, securing **3** industrial partnerships and **$200,000** in non-dilutive funding.
- Prepared reports and presentations on IP strategies and activities and headed a licensing agreement.
- Developed marketing materials for a proprietary oncology formulation and disseminated marketing materials to potential licensees.

National Science Foundation – Berkeley, CA
Entrepreneur Lead ***May 2023 – July 2023***

- Applied critical thinking skills to conduct 300 stakeholder interviews to validate product-market fit in the life sciences industry.

George Mason University– Fairfax, VA
Ph.D. Research Assistant ***August 2017 – December 2022***

- Innovatively engineered proprietary formulations for non-invasive imaging of pre-cancer lesions or tumors within the CNS.
- Conducted **4** research projects, collaborating with **15** individuals and discovered **3** different therapeutic leads.
- Developed cutting-edge antibody conjugated formulations (LNPs and polymeric) for precise therapeutic delivery to pre-cancer targets.

University of Bridgeport – Bridgeport, US
Graduate Research Assistant ***August 2015 – August 2017***

- Engineered a highly sensitive biosensor material to accurately detect trace levels of mutated DNA sequences associated with colorectal cancer.

EDUCATION

GEORGE MASON UNIVERSITY – PH.D., BIOENGINEERING AUGUST 2017- DECEMBER 2022
UNIVERSITY OF BRIDGEPORT – MASTER, BIOMEDICAL ENGINEERING AUGUST 2015 - JUN 2017

CORE COMPETENCIES

Scientific Research: Experiment Design & Strategy, Data Analysis, Research Documentation, Problem Solving
Project Leadership: Strategic Planning, Cross-Functional Collaboration, Agile Methodologies, Communication Skills, Critical Thinking, Grant Writing, Grant Budget Management
Communication: Market Analysis, Stakeholder Engagement, Product Commercialization
Regulatory Knowledge: cGMP, SOPs, GCP, CMCs

TECHNICAL SKILLS AND EXPERTISE

Analytical Techniques: HPLC/UPLC, UPLC/MS, TGA, DSC, XRPD, PSD, pH Measurements, Light Microscopy
Software: GraphPad, Adobe Illustrator

Technical Skills: ELISA, Immunohistochemistry, SDS-PAGE, Western Blotting, *In-Vitro* Assays, Cell Culture, PK/PD studies *in-vivo*, Nanoparticle and hydrogel formulations

KEY ACHIEVEMENTS AND EXTRACURRICULAR ENGAGEMENTS

- **NSF Grant Award: $50,000**
- **Virginia Commonwealth Commercialization Grant: $75,000**
- **NSF Small Business and Innovation in Research Grant: $250,000 *(pending)***
- Patriot Pitch Conference: 1st place winner
- Accelerator Investor Conference: 2nd place winner (Total Prize Money: $10,000)
- Inventor Recognized in STAT News Best 64 Healthcare Technologies (2023)
- WeSci Women in STEM Crowdfunding Campaign Victor Prize: $1,300
- George Mason University Outstanding PhD Dissertation Award
- Best Graduate Work by the Biomedical Engineering Society (AbioM)
- Invited talks at Harvard Medical School, Scintica, PhotoSound.
- Active Volunteer Reviewer for Biomedical Engineering Society, World Molecular Imaging Society, Graduate Women in Science